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Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10540 (1991) : Cardiovascular Surgery Instruments - Clamps, Atrial Appendage, Glover's Pattern - Shape and Dimensions [MHD 6: Thoracic and Cardiovascular Surgery Instruments]

**“ज्ञान से एक नये भारत का निर्माण”**

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



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Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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ग्लोवर नमूने वाला—आकृति एवं आयाम  
( पहला पुनरीक्षण )

*Indian Standard*

CARDIOVASCULAR SURGERY  
INSTRUMENTS—CLAMPS, ATRIAL  
APPENDAGE, GLOVER'S PATTERN—  
SHAPE AND DIMENSIONS

*( First Revision )*

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## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards after the draft finalized by the Thoracic and Cardiovascular Surgery Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first issued in 1983 covering specification for Atrial Appendage Clamps, Glover's pattern used in Cardiovascular Surgery. This has been revised so as to retain the requirements in respect of shape and dimensions only, as the specification part of these types of instruments is now covered in IS 3642 ( Part 1 ) : 1990 'Specification for surgical instruments : Part 1 Non-cutting, articulated type instruments (*second revision*)'. This standard is, therefore, intended to be used only in respect of the shape and dimensions, which are referred to in clause 4.1 of IS 3642 ( Part 1 ) : 1990.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## *Indian Standard*

# CARDIOVASCULAR SURGERY INSTRUMENTS—CLAMPS, ATRIAL APPENDAGE, GLOVER'S PATTERN— SHAPE AND DIMENSIONS

*(First Revision)*

### **1 SCOPE**

This standard prescribes shape and dimensions for Atrial Appendage Clamps, Glover's Pattern for use in Cardiovascular Surgery.

### **2 REFERENCES**

IS 3642 (Part 1) : 1990 'Specification for surgical instruments : Part 1 'Non-cutting articulated type instruments (*second revision*)', forms a necessary adjunct to this standard.

### **3 SHAPE AND DIMENSIONS**

**3.1** The shape and dimensions for the Atrial Appendage Clamps shall be as shown in Fig. 1.

#### **3.2 Joint**

The joints shall be of box type in accordance with 13.2.2 of IS 3642 (Part 1) : 1990.

#### **3.3 Serrations**

The serrations shall be atraugrip type and shall conform to 12.5 of IS 3642 (Part 1) : 1990.

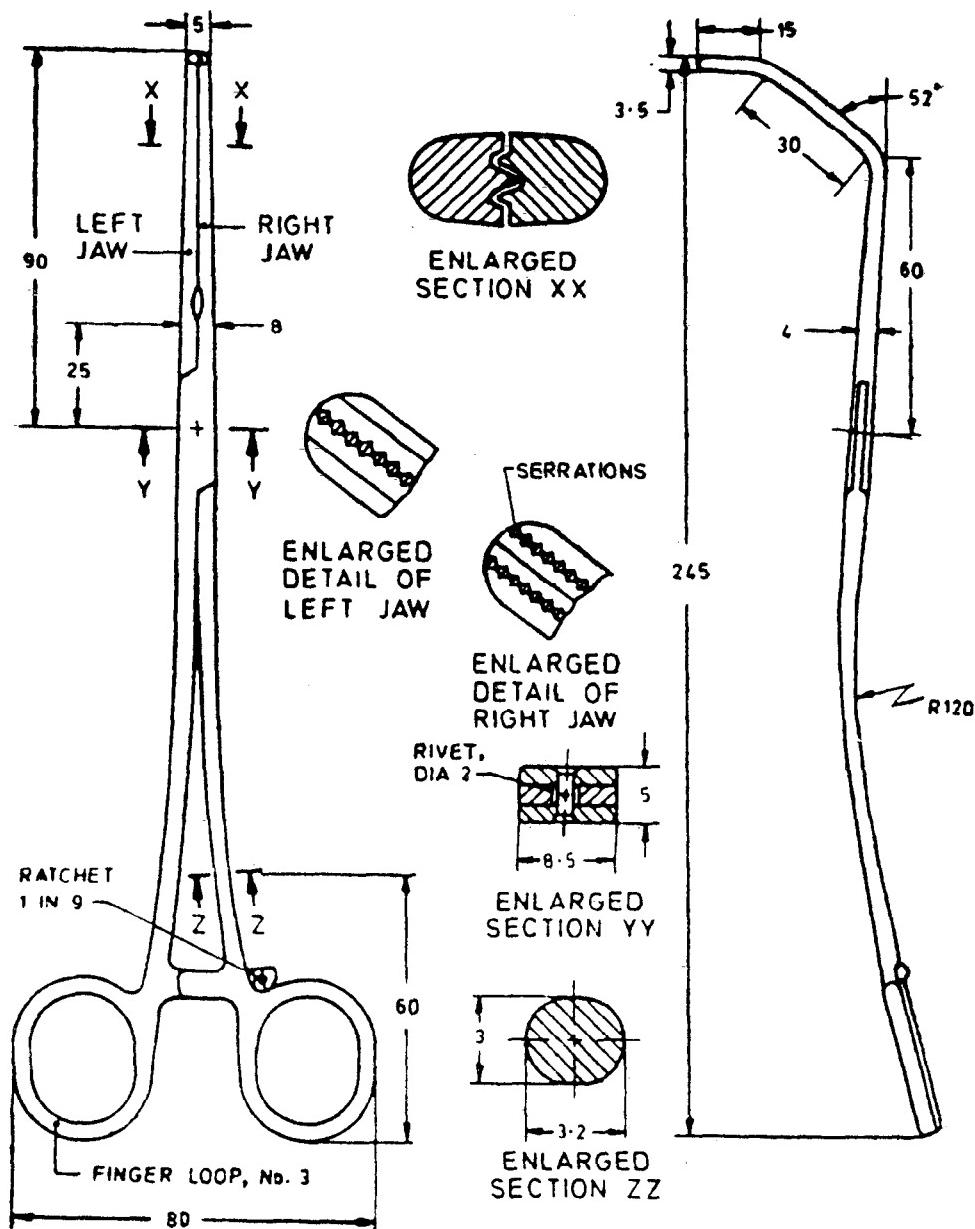
#### **3.4 Ratchet**

Ratchet teeth shall conform to Section 4 of IS 3642 (Part 1) : 1990 with a combination of 1 in 9.

**3.4.1** The ratchet teeth shall be designed such that the force required to close the clamp at first step of the ratchet shall be 2.5 N, for the second step 5 N and so on.

#### **3.5 Finger Loop**

The finger loop shall conform to Size No. 3 of Section 6 of IS 3642 (Part 1) : 1990.



All dimensions in millimetres.

FIG. 1 CLAMP, ATRIAL APPENDAGE, GLOVER'S PATTERN

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